

CLAIMS

We claim:

1. A hard surface cleaner having a pH below 7.0,
comprising:
surfactant;
a poly D-glucosamine; and
water.
2. The hard surface cleaner of claim 1, wherein the
poly D-glucosamine is selected from the group consisting of
chitosan and salts of chitosan.
3. The hard surface cleaner of claim 2, further
comprising an acid.
4. The hard surface cleaner of claim 3, wherein the
acid is an organic acid selected from the group consisting
of lactic acid, sulfamic acid, citric acid, valeric acid,
hexanoic acid, and glycolic acid.
5. The hard surface cleaner of claim 2, further
comprising a glycol ether solvent.
6. The hard surface cleaner of claim 2, wherein the
surfactant is a nonionic surfactant in the .1-10% weight
range.
7. The hard surface cleaner of claim 2, further
comprising a cellulosic thickener.
8. The hard surface cleaner of claim 1, further
comprising a disinfectant.
9. The hard surface cleaner of claim 2, wherein the
water is at least 50% by weight of the cleaner.

10. A method of cleaning a hard surface, comprising: applying a cleaner against the hard surface; and then rinsing the surface with water; wherein the cleaner has a pH below 7.0 and comprises a surfactant, water and a poly D-glucosamine.

11. The method of claim 10, wherein the poly D-glucosamine is selected from the group consisting of chitosan and salts of chitosan.

12. The method of claim 11, wherein the cleaner further comprising an acid.

13. The method of claim 11, wherein the acid is an organic acid selected from the group consisting of lactic acid, sulfamic acid, citric acid, valeric acid, hexanoic acid, and glycolic acid.

14. The method of claim 11, wherein the cleaner further comprises a glycol ether solvent.

15. The method of claim 10, wherein the surfactant is a nonionic surfactant.

16. The method of claim 11, wherein the cleaner further comprises a cellulosic thickener.

17. The method of claim 10, wherein the cleaner further comprises a disinfectant.

18. The method of claim 11, wherein the cleaner comprises at least 50% by weight of the cleaner.